

## Declaration and Power of Attorney For Patent Application

特許出願宣言書及び委任状

Japanese Language Declaration

日本語宣言書

下記の氏名の発明者として、私は以下の通り宣言します。

As a below named inventor, I hereby declare that:

私の住所、私書箱、国籍は下記の私の氏名の後に記載された通りです。

My residence, post office address and citizenship are as stated next to my name.

下記の名称の発明に関して請求範囲に記載され、特許出願している発明内容について、私が最初かつ唯一の発明者（下記の氏名が一つの場合）もしくは最初かつ共同発明者であると（下記の名称が複数の場合）信じています。

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

VERTICALLY-ALIGNED (VA) LIQUID

CRYSTAL DISPLAY DEVICE

上記発明の明細書（下記の欄で印がついていない場合は、本書に添付）は、

the specification of which is attached hereto unless the following box is checked:

☐ 月 日に提出され、米国出願番号または特許協定条約国際出願番号を \_\_\_\_\_ とし、  
（該当する場合） \_\_\_\_\_ に訂正されました。

☒ was filed on June 12, 1998  
as United States Application Number or  
PCT International Application Number  
\_\_\_\_\_ and was amended on  
\_\_\_\_\_ (if applicable).

私は、特許請求範囲を含む上記訂正後の明細書を検討し、内容を理解していることをここに表明します。

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

私は、連邦規則法典第37編第1条56項に定義されるとおり、特許資格の有無について重要な情報を開示する義務があることを認めます。

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

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**Japanese Language Declaration**  
(日本語宣言書)

私は、米国法典第35編119条(a)-(d)項又は365条(b)項に基づき下記の、米国以外の国の少なくとも一ヶ国を指定している特許協力条約365(a)項に基づく国際出願、又は外国での特許出願もしくは発明者等の出願についての外国優先権をここに主張するとともに、優先権を主張している、本出願の前に出願された特許または発明者等の外国出願を以下に、枠内をマークすることで、示しています。

**Prior Foreign Application(s)**

外国での先行出願

9-155437	Japan
(Number)	(Country)
(番号)	(国名)
9-230982	Japan
(Number)	(Country)
(番号)	(国名)
9-230991	Japan
(Number)	(Country)
(番号)	(国名)
9-266937	Japan
(Number)	(Country)
(番号)	(国名)
9-361384	Japan
(Number)	(Country)
(番号)	(国名)
(all of Pat. App'ns.)	
(Number)	(Country)
(番号)	(国名)

私は、第35編米国法典119条(e)項に基づいて下記の米国特許出願規定に記載された権利をここに主張いたします。

(Application No.)	(Filing Date)
(出願番号)	(出願日)

私は、下記の米国法典第35編120条に基づいて下記の米国特許出願に記載された権利、又は米国を指定している特許協力条約365条(c)に基づき権利をここに主張します。また、本出願の各請求範囲の内容が米国法典第35編112条第1項又は特許協力条約で規定された方法で先行する米国特許出願に開示されていない限り、その先行米国出願書提出日以降で本出願書の日本国内または特許協力条約国際提出日までの期間中に入手された、連邦規則法典第37編1条56項で定義された特許資格の有無に関する重要な情報について開示義務があることを認識しています。

(Application No.)	(Filing Date)
(出願番号)	(出願日)

(Application No.)	(Filing Date)
(出願番号)	(出願日)

私は、私自身の知識に基づいて本宣言書中で私が行なう説明が真実であり、かつ私の入手した情報と私の信じることに基づき説明が全て真実であると信じていること、さらに故意になされた虚偽の説明及びそれと同等の行為は米国法典第18編第1001条に基づき、罰金または拘禁、もしくはその両方により処罰されること、そしてそのような故意による虚偽の説明を行えば、出願した、又は既に許可された特許の有効性が失われることを認識し、よってここに上記のごとく宣言を致します。

I hereby claim foreign priority under Title 35, United States Code, Section 119 (a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

**Priority Not Claimed**

優先権主張なし

12/June/1997	<input type="checkbox"/>
(Day/Month/Year Filed)	
(出願年月日)	
27/August/1997	<input type="checkbox"/>
(Day/Month/Year Filed)	
(出願年月日)	
27/August/1997	<input type="checkbox"/>
(Day/Month/Year Filed)	
(出願年月日)	
30/September/1997	<input type="checkbox"/>
(Day/Month/Year Filed)	
(出願年月日)	
26/December/1997	<input type="checkbox"/>
(Day/Month/Year Filed)	
(出願年月日)	
(Day/Month/Year Filed)	<input type="checkbox"/>
(出願年月日)	

I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below.

(Application No.)	(Filing Date)
(出願番号)	(出願日)

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s), or 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.64 which became available between the filing date of the prior application and the national or PCT International filing date of application.

(Status: Patented, Pending, Abandoned)
(現況: 特許許可済、係属中、放棄済)

(Status: Patented, Pending, Abandoned)
(現況: 特許許可済、係属中、放棄済)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

# Japanese Language Declaration

委任状：私は、下記発明者として、以下の代理人をここに  
送任し、本願の手続を遂行すること並びにこれに関する  
一切の行為を特許商標庁に対して行うことを委任する。  
(代理人氏名および登録番号を明記のこと)

POWER OF ATTORNEY: As a named inventor, I hereby  
appoint the following attorney(s) and/or agent(s) to prosecute  
this application and transact all business in the Patent and  
Trademark Office connected therewith. (List name and reg-  
istration number)

## Attorney

## Req. No.

Patrick G. Burns	29,367
Roger D. Greer	26,174
Lawrence J. Crain	31,497
Christopher J. Reckamp	34,414
Steven P. Fallon	35,132

書類の送付先：

Send Correspondence to:

Patrick G. Burns  
GREER, BURNS & CRAIN, LTD.  
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233 South Wacker Drive  
Chicago, Illinois 60606

直通電話連絡先：(名称および電話番号)

Direct Telephone Calls to: (name and telephone number)

Patrick G. Burns  
(312) 993-0080

唯一のまたは第一の発明者の氏名	Full name of sole or first inventor Arihiro Takeda
同発明者の署名 日付	Inventor's signature <i>Arihiro Takeda</i> Date June 25, 1998
住所	Residence Kawasaki-shi, Kanagawa, Japan
国籍	Citizenship Japanese
郵便の宛先	Post Office Address c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan
第2の共同発明者の氏名 (該当する場合)	Full name of second joint inventor, if any Katsufumi Ohmuro
同第2発明者の署名 日付	Second Inventor's signature <i>Katsufumi Ohmuro</i> Date June 25, 1998
住所	Residence Kawasaki-shi, Kanagawa, Japan
国籍	Citizenship Japanese
郵便の宛先	Post Office Address c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan

... (第六またはそれ以降の共同発明者に対しても同様な情  
報および署名を提供すること。)

(Supply similar information and signature for third and sub-  
sequent joint inventors.)

(Supply similar information and signature for third and subsequent joint inventors.)

第七共同発明者名	Full name of seventh joint inventor, if any.
Hideaki Tsuda	
日付	Inventor's signature Date
Hideaki Tsuda	June 25, 1998
住所	Residence
Kawasaki-shi, Kanagawa, Japan	
国籍	Citizenship
Japanese	
私書箱	Post Office Address
c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan	
第八共同発明者	Full name of eighth joint inventor, if any
Hideo Chida	
日付	Inventor's signature Date
Hideo Chida	June 25, 1998
住所	Residence
Kawasaki-shi, Kanagawa, Japan	
国籍	Citizenship
Japanese	
私書箱	Post Office Address
c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan	
第九共同発明者名	Full name of ninth joint inventor, if any
Makoto Ohashi	
日付	Inventor's signature Date
Makoto Ohashi	June 25, 1998
住所	Residence
Kawasaki-shi, Kanagawa, Japan	
国籍	Citizenship
Japanese	
私書箱	Post Office Address
c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan	
第十共同発明者	Full name of tenth joint inventor, if any
Kenji Okamoto	
日付	Inventor's signature Date
Kenji Okamoto	June 25, 1998
住所	Residence
Kawasaki-shi, Kanagawa, Japan	
国籍	Citizenship
Japanese	
私書箱	Post Office Address
c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan	

(第三以降の共同発明者についても同様に記載し、署名をすること)

(Supply similar information and signature for third and subsequent joint inventors.)

第十一共同発明者名	Full name of eleventh joint inventor, if any		
日付	Hisashi Yamaguchi		
住所	Inventor's signature	Date	
	Hisashi Yamaguchi	June 25, 1998	
国籍	Residence Kawasaki-shi, Kanagawa, Japan		
私書箱	Citizenship Japanese		
	Post Office Address c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan		
第十二共同発明者	Full name of twelfth joint inventor, if any		
日付	Minoru Otani		
住所	Inventor's signature	Date	
	Minoru Otani	June 25, 1998	
国籍	Residence Kawasaki-shi, Kanagawa, Japan		
私書箱	Citizenship Japanese		
	Post Office Address c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan		
第十三共同発明者名	Full name of thirteenth joint inventor, if any		
日付	Makoto Morishige		
住所	Inventor's signature	Date	
	Makoto Morishige	June 25, 1998	
国籍	Residence Kawasaki-shi, Kanagawa, Japan		
私書箱	Citizenship Japanese		
	Post Office Address c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan		
第十四共同発明者	Full name of fourteenth joint inventor, if any		
日付	Noriaki Furukawa		
住所	Inventor's signature	Date	
	Noriaki Furukawa	June 25, 1998	
国籍	Residence Kawasaki-shi, Kanagawa, Japan		
私書箱	Citizenship Japanese		
	Post Office Address c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan		

(第三以降の共同発明者についても同様に記載し、署名をすること)

(Supply similar information and signature for third and subsequent joint inventors.)

第十五共同発明者名

Full name of fifteenth joint inventor:

Tsuyoshi Kamada

署名

日付

Inventor's signature

Date

Tsuyoshi Kamada June 25, 1998

住所

Residence

Kawasaki-shi, Kanagawa, Japan

国籍

Citizenship

Japanese

私書箱

Post Office Address

c/o FUJITSU LIMITED, 1-1,  
Kamikodanaka 4-chome, Nakahara-ku,  
Kawasaki-shi, Kanagawa 211-8588, Japan

第十六共同発明者

Full name of sixteenth joint inventor, if any:

Yoshinori Tanaka

署名

日付

Inventor's signature

Date

Yoshinori Tanaka June 25, 1998

住所

Residence

Kawasaki-shi, Kanagawa, Japan

国籍

Citizenship

Japanese

私書箱

Post Office Address

c/o FUJITSU LIMITED, 1-1,  
Kamikodanaka 4-chome, Nakahara-ku,  
Kawasaki-shi, Kanagawa 211-8588, Japan

第十七共同発明者名

Full name of seventeenth joint inventor, if any:

Atsuyuki Hoshino

署名

日付

Inventor's signature

Date

ATSUYUKI HOSHINO June 25, 1998

住所

Residence

Kawasaki-shi, Kanagawa, Japan

国籍

Citizenship

Japanese

私書箱

Post Office Address

c/o FUJITSU LIMITED, 1-1,  
Kamikodanaka 4-chome, Nakahara-ku,  
Kawasaki-shi, Kanagawa 211-8588, Japan

第十八共同発明者

Full name of eighteenth joint inventor, if any:

Shougo Hayashi

署名

日付

Inventor's signature

Date

Shougo Hayashi June 25, 1998

住所

Residence

Kawasaki-shi, Kanagawa, Japan

国籍

Citizenship

Japanese

私書箱

Post Office Address

C/O FUJITSU LIMITED, 1-1,  
Kamikodanaka 4-chome, Nakahara-ku,  
Kawasaki-shi, Kanagawa 211-8588, Japan

(第三以降の共同発明者についても同様に記載し、署名をすること)

(Supply similar information and signature for third and subsequent joint inventors.)

第十九号共同発明者名	Full name of nineteenth joint inventor, if any:	
Hideaki Takizawa		
日付	Inventor's signature	Date
	<i>Hideaki Takizawa</i>	June 25, 1998
住所	Residence	
	Kawasaki-shi, Kanagawa, Japan	
国籍	Citizenship	
	Japanese	
私書箱	Post Office Address	
	c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan	
第二十号共同発明者名	Full name of twentieth joint inventor, if any:	
Takeshi Kinjou		
日付	Inventor's signature	Date
	<i>Takeshi Kinjou</i>	June 25, 1998
住所	Residence	
	Kawasaki-shi, Kanagawa, Japan	
国籍	Citizenship	
	Japanese	
私書箱	Post Office Address	
	c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan	
第二十一号共同発明者名	Full name of twenty-first joint inventor, if any:	
Makoto Tachibanaki		
日付	Inventor's signature	Date
	<i>Makoto Tachibanaki</i>	June 25, 1998
住所	Residence	
	Kawasaki-shi, Kanagawa, Japan	
国籍	Citizenship	
	Japanese	
私書箱	Post Office Address	
	c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan	
第二十二号共同発明者名	Full name of twenty-second joint inventor, if any:	
Keiji Imoto		
日付	Inventor's signature	Date
	<i>Keiji Imoto</i>	June 25, 1998
住所	Residence	
	Kawasaki-shi, Kanagawa, Japan	
国籍	Citizenship	
	Japanese	
私書箱	Post Office Address	
	c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan	

(第三以降の共同発明者についても同様に記載し、署名をすること)

(Supply similar information and signature for third and subsequent joint inventors.)

第二十三发明者名		Full name of twenty-third joint inventor, if any:	
第二十三发明者	日付	Tadashi Hasegawa	
住所		Inventor's signature	Date
		Tadashi Hasegawa	June 25, 1998
国籍		Residence	
		Kawasaki-shi, Kanagawa, Japan	
私書箱		Citizenship	
		Japanese	
		Post Office Address	
		c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan	
第二十四发明者名		Full name of twenty-fourth joint inventor, if any:	
第二十四发明者	日付	Hidefumi Yoshida	
住所		Inventor's signature	Date
		H. Yoshida	June 25, 1998
国籍		Residence	
		Kawasaki-shi, Kanagawa, Japan	
私書箱		Citizenship	
		Japanese	
		Post Office Address	
		c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan	
第二十五发明者名		Full name of twenty-fifth joint inventor, if any:	
第二十五发明者	日付	Hiroyasu Inoue	
住所		Inventor's signature	Date
		Hiroyasu Inoue	June 25, 1998
国籍		Residence	
		Kawasaki-shi, Kanagawa, Japan	
私書箱		Citizenship	
		Japanese	
		Post Office Address	
		c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan	

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第二十六共同発明者名		Full name of twenty-sixth joint inventor, if any:	
日付		Yoji Taniguchi	
第二十六共同発明者		Inventor's signature	Date
		Yoji Taniguchi	June 25, 1998
住所		Residence	
		Kawasaki-shi, Kanagawa, Japan	
国籍		Citizenship	
		Japanese	
私書箱		Post Office Address	
		C/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan	
第二十七共同発明者		Full name of twenty-seventh joint inventor, if any:	
日付		Tetsuya Fujikawa	
第二十七共同発明者		Inventor's signature	Date
		T. Fujikawa	June 25, 1998
住所		Residence	
		Kawasaki-shi, Kanagawa, Japan	
国籍		Citizenship	
		Japanese	
私書箱		Post Office Address	
		C/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan	
第二十八共同発明者名		Full name of twenty-eighth joint inventor, if any:	
日付		Satoshi Murata	
第二十八共同発明者		Inventor's signature	Date
		Satoshi Murata	June 25, 1998
住所		Residence	
		Kawasaki-shi, Kanagawa, Japan	
国籍		Citizenship	
		Japanese	
私書箱		Post Office Address	
		C/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan	
第二十九共同発明者		Full name of twenty-ninth joint inventor, if any:	
日付		Manabu Sawasaki	
第二十九共同発明者		Inventor's signature	Date
		Manabu Sawasaki	June 25, 1998
住所		Residence	
		Kawasaki-shi, Kanagawa, Japan	
国籍		Citizenship	
		Japanese	
私書箱		Post Office Address	
		C/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan	

(第三以降の共同発明者についても同様に記載し、署名をすること)

(Supply similar information and signature for third and subsequent joint inventors.)



第三十四共同発明者名	Full name of thirty-fourth joint inventor, if any:
第三十四共同発明者 日付	Kouji Tsukao
住所	Residence Yonago-shi, Tottori, Japan
国籍	Citizenship Japanese
住所	Post Office Address c/o YONAGO FUJITSU LIMITED, 650, Aza Otsukanoni, Sekishu-fu, Yonago-shi, Tottori 689-3524, Japan
第三十五共同発明者	Full name of thirty-fifth joint inventor, if any:
第三十五共同発明者 日付	Yasutoshi Tasaka
住所	Residence Kawasaki-shi, Kanagawa, Japan
国籍	Citizenship Japanese
住所	Post Office Address c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan
第三十六共同発明者	Full name of thirty-sixth joint inventor, if any:
第三十六共同発明者 日付	Takatoshi Mayama
住所	Residence Kawasaki-shi, Kanagawa, Japan
国籍	Citizenship Japanese
住所	Post Office Address c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan
第三十七共同発明者	Full name of thirty-seventh joint inventor, if any:
第三十七共同発明者 日付	Seiji Tanuma
住所	Residence Kawasaki-shi, Kanagawa, Japan
国籍	Citizenship Japanese
住所	Post Office Address c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan

(第三十八の共同発明者についても同様に記載し、署名すること)

(Supply similar information and signature for third and subsequent joint inventors.)

002101 82668960

第三十八共同発明者名		Full name of thirty-eighth joint inventor, if any:	
日付		Yohei Nakanishi	
第三十八共同発明者		Inventor's signature	Date
		Yohei Nakanishi June 25, 1998	
住所		Residence	
		Kawasaki-shi, Kanagawa, Japan	
国籍		Citizenship	
		Japanese	
郵便番号		Post Office Address	
		c/o FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan	
第三十九共同発明者名		Full name of thirty-ninth joint inventor, if any:	
日付			
第三十九共同発明者		Inventor's signature	Date
住所		Residence	
国籍		Citizenship	
郵便番号		Post Office Address	
第四十共同発明者名		Full name of fortieth joint inventor, if any:	
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2803.62444

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In Re U.S. Patent Application

Applicants: Takeda et al.

Serial No.: 09/097,027

Filed: June 12, 1998

For: VERTICALLY-ALLIGNED (VA)  
LIQUID CRYSTAL DISPLAY  
DEVICE

Examiner:

Art Unit: 2871

I hereby certify that this paper is being deposited with  
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Appr. February 20, 1998

Registration No.

37,538

Attorney for Applicant

**ASSOCIATE POWER OF ATTORNEY**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

The undersigned attorney of record in the above-identified patent application hereby  
appoints,

Paul G. Juettner	Registration No. 30,270
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as associate attorneys in said application to prosecute said application and to transact all business in  
the Patent and Trademark Office connected therewith, and requests that all correspondence continue  
to be directed to the undersigned at the address of record, indicated below:

Respectfully submitted,  
GREER, BURNS & CRAIN, LTD.

By

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